

**Summary Report for Individual Task
052-250-0130
Provide Asbesto, Lead, and PCBs Awareness
Status: Approved**

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Leonard Wood foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: The element is deployed and responsible for establishing awareness of Asbestos, Lead and Poly Chlorinated Biphenyls (PCB) for all Soldiers. Standard MOPP 4 conditions do not exist for this task. See the MOPP 4 statement for specific conditions.

Standard: Develop awareness of Asbestos, Lead and Poly Chlorinated Biphenyls (PCB) in order to protect Soldier health and the base camp living environment.

Special Condition: None

Safety Risk: Low

MOPP 4: N/A

Task Statements

Cue: Given the threat of Asbestos, Lead, and/or Poly Chlorinated Biphenyls within your AO.

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: The link attached provides access to DoD 4715.05-G and CFR 40:
<http://www.dtic.mil/whs/directives/corres/pdf/471505p.pdf>

Performance Steps

1. Define Asbestos, Lead and Poly Chlorinated Biphenyls (PCB).
2. List Asbestos Characteristics.
 - a. Group of naturally occurring fibrous minerals.
 - b. Can be woven.
 - c. High tensile strength.
 - d. Commonly used in building materials.
 - e. Resistant to heat and chemicals.
3. Describe uses of Asbestos.
 - a. Construction type material - roofing material, ceilings, flooring, drywall, wall and ceiling textures.
 - b. Insulation, fireproofing, piping and ductwork.
 - c. Other uses - protective clothing and brake pads.
4. Recognize the Dangers of Asbestos - long term non-cancerous disease of the lungs, lung cancer, and mesothelioma.
5. Identify Asbestos operation, maintenance and abatement.
 - a. Operation and maintenance is costly and must be performed by qualified personnel. Identify possible locations of asbestos, confirm locations through analysis, inspect periodically, while documenting and assessing any changes. Control any activity that may disturb the asbestos (zero to minimal fiber release). Keep records, alert and provide training to all personnel. Use proper protective equipment (PPE). Assess and prioritize hazards for abatement.
 - b. Asbestos PPE - Half mask respirator, self contained breathing apparatus (SCBA), disposable coveralls, disposable gloves, rubber disposable boots and safety eyewear.
 - c. Asbestos abatement takes place prior to any demolition or renovation, friable asbestos should be removed when it poses a threat to release airborne asbestos fibers and can't be isolated and during the removal process asbestos should be adequately wet, sealed in a leak-proof container and properly disposed of in an approved landfill.
6. Identify the characteristics of Lead.
 - a. Dangers of Lead exposure - Hearing and vision impaired, reproductive problems, high blood pressure, nerve disorder, memory/concentration problems, poor muscle coordination, muscle and joint pain, primarily important in child occupied facilities and military family housing.
 - b. Lead - Operation and maintenance Plan - Identify and confirm locations of lead based paint by visual survey and sample analysis. Inspect periodically, document and assess any changes in paint conditions. Manage through interim controls or abatement. Alert personnel, provide training, use work practices that minimize paint disturbance, use PPE, dispose properly in an approved landfill and keep records.
 - c. Lead abatement - encapsulation, enclosure, removal and replacement.
7. Identify the uses of Polychlorinated Biphenyls (PCBs).

a. Polychlorinated Biphenyls characteristics and exposure - very stable compounds that does not decompose easily, extremely difficult to destroy by chemical, thermal or biochemical processes. PCB can accumulate in animal and human tissue, can be ingested with contaminated food or liquids, absorbed through skin, latex and vinyl. It can be inhaled from contaminated air.

b. Health effects of Polychlorinated Biphenyls exposure - cancer, immune system, reproductive system, nervous system, endocrine system, neurological issues, skin and eye issues and liver failure.

c. Polychlorinated Biphenyls Operation and Maintenance Plan includes the following: spill contingency, removal of contaminated soil that test no higher than 10-25 ppm depending on level access, label PCB containing equipment, keep records and inventory, inspect periodically, alert personnel, provide training, use PPE, dispose of properly, phase out equipment containing PCB and replace with non-containing PCB equipment.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier a GO if all performance measures are passed. Score the Soldier a NO GO if any performance measure is failed. If the Soldier scores a NO GO, retrain and retest.

Evaluation Preparation: Test this task in conjunction with other predeployment measure testing. Ensure that access to FM 3-34.5 and current FGS are available. Tell the Soldier to develop the IWMP for the AO and be prepared to brief the findings to the Commander.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Defined Asbestos, Lead and Poly Chlorinated Biphenyls (PCB).			
2. Interpreted Asbestos Characteristics			
3. Provided Uses of Asbestos			
4. Recognized the Dangers of Asbestos - long term non-cancerous disease of the lungs, lung cancer, and mesothelioma.			
5. Identified Asbestos Operation, maintenance and Abatement			
6. Identified the characteristics of Lead - a heavy metal commonly used in the manufacturing of paint, paint or other surface coatings that contain lead equal to or exceeding 1.0 milligram per cm ² , or 0.5 percent by weight, or 5,000 ppm by weight, a hazard if it is not properly managed; Lead particles can cause health problems if swallowed or inhaled and tiny lead particles can be released and contaminate the environment when materials containing lead are deteriorated, scraped, chipped, sanded, or sandblasted.			
7. Identified Polychlorinated Biphenyls uses - dielectric and coolant fluids, transformers, capacitors, industrial lights and electric motors.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	CFR 40	Environmental Protection Agency Code of Federal Regulations Title 40, Protection of Environment	No	No
	DOD 4715.05-G	Overseas Environmental Baseline Guidance Document.	No	No
	FM 3-34.5	Environmental Considerations	No	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk

Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
052-249-1147	Perform Hazmat Operations at the Hazmat Operational Level	052 - Engineer (Individual)	Approved

Supported Individual Tasks : None

Supported Collective Tasks : None